Application No.: 10/755,009

Amendment Date: June 16, 2005 Reply to Office Action: March 24, 2005

Page 2

Listing of Claims:

(Currently Amended) A rare earth doped fiber coil, said rare earth doped fiber coil 1.

comprising:

a rare earth doped optical fiber having a rare-earth doped core surrounded by a

cladding with outer clad diameter of less than 90 µm 100µm, said rare earth doped optical

fiber having a length of 10 m to 50m and being coiled with a bend radius of less than

40mm.

(Canceled) 2.

(Original) The rare earth doped fiber coil according to claim 1, wherein said clad 3.

diameter is in the range of 72 µm to 90 µm

(Original) The rare earth doped fiber coil according to claim 1, wherein said clad 4.

diameter is in the range of 75 µm to 85 µm.

(Currently Amended) The rare earth doped fiber coil according to claim $\underline{4}$ [[1]],

wherein said rare earth doped optical fiber is an Er doped optical fiber.

(Original) The rare earth doped fiber coil according to claim 5, wherein said bend 6.

radius is between 8mm and 35mm.

7. (Original) The rare earth doped fiber coil according to claim 5, wherein said bend

radius is between 8mm and 20mm.

(Original) The rare earth doped fiber coil according to claim 5, wherein said bend 8.

radius is between 10mm and 15mm.

Application No.: 10/755,009

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Page 3

9. (Original) The rare earth doped fiber coil according to claim 1, wherein said bend

radius is between 8mm and 20mm.

(Original) The rare earth doped fiber coil according to claim 1, wherein said bend

radius is between 10mm and 15mm.

(Currently Amended) An optical amplifier comprising: a length of rare earth

doped amplifying fiber, said amplifying fiber having a rare-earth doped core surrounded by

a cladding with outer clad diameter of less than 90 µm 100µm, said rare earth doped

optical fiber having a length of 10 m to 50m and being coiled with a bend radius of less

than 40mm.

(Original) The optical amplifier according to claim 10, wherein said rare earth

doped optical fiber is an Er doped optical fiber.

(Original) The optical amplifier according to claim 10, wherein said bend radius is 13.

between 8mm and 20mm.

14. (Canceled)

15. (Original) The optical amplifier according to claim 10 wherein said outer clad

diameter is between 72µm and 90µm.

(Original) The optical amplifier according to claim 10 wherein said outer clad 16.

diameter is between 75µm and 85µm.